

**AGREEMENT BETWEEN  
PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM  
AND  
WYOMING WATER DEVELOPMENT OFFICE**

The parties to this Agreement ("Contract") are THE STATE OF WYOMING, acting through the Wyoming Water Development Office ("WWDO"), whose address is 6920 Yellowtail Road, Cheyenne, Wyoming 82002, hereinafter referred to as "State," and THE NEBRASKA COMMUNITY FOUNDATION, representing all signatories to the Platte River Recovery Implementation Program, acting on behalf of the Platte River Recovery Implementation Program, whose address is 4111 4<sup>th</sup> Avenue, Suite 6, Kearney, Nebraska 68845, hereinafter referred to as "PRRIP." The State and the PRRIP are sometimes referred to herein jointly as "the Parties."

**WITNESSETH THAT:**

The following preliminary statements are made for the purpose of explanation:

**EXPLANATORY RECITALS**

**WHEREAS**, the Consolidated Natural Resource Act of 2008 (Public Law 110-229, Title V, Section 515) authorizes the Secretary of the Department of Interior ("Secretary") to construct, operate, and maintain the modification of the existing Pathfinder Dam and Reservoir, North Platte Project, with financial and managerial participation by the State as provided for in Contract No. 10XX6A0040, "Contractual Agreement Between the United States of America and the State of Wyoming, North Platte Project, Wyoming," dated June 14, 2010 ("Federal Contract").

**WHEREAS**, the United States completed construction of the existing Pathfinder Dam and Reservoir in 1909, which serves as the main water storage feature of the North Platte Project. Wyoming Permit No. 609R, with a priority date of December 6, 1904, is adjudicated for a total storage right to the United States of 1,070,000 acre-feet.

**WHEREAS**, Appendix F to the Final Settlement Stipulation of the settlement of the Nebraska v. Wyoming lawsuit, amending the 1953 Order Modifying and Supplementing Decree of October 8, 1945 ("Pathfinder Modification Stipulation") authorizes and describes the Modification of Pathfinder Dam and Reservoir.

**WHEREAS**, Chapter 105 of the 2006 Wyoming Session Laws, as amended in Chapter 25 of the 2009 Wyoming Session Laws, (W.S. 99-3-1105(b)), authorized the State to enter into an agreement with the United States for modification of the existing Pathfinder Dam and Reservoir, required approval of the Contract by the Governor and authorized funding for the modification of Pathfinder Dam.

**WHEREAS**, the State and the United States of America entered into the Federal Contract, which, in part, provides the State the right to provide water from the Wyoming Account to the PRRIP under annual temporary water use agreements and to recover all

costs associated with providing such water, so long as that use complies with the purposes of the Wyoming Account as specified in the Pathfinder Modification Stipulation.

**WHEREAS**, the original uses designated under Wyoming Permit No. 609R included irrigation and domestic use for the entire permitted capacity of 1,070,000 acre-feet. On January 26, 2009, the United States obtained a change of use (for additional uses) for 53,493 acre-feet of the permitted capacity of 1,070,000 acre-feet for Pathfinder Reservoir from the Wyoming State of Board of Control. The new uses for 33,493 acre-feet of the original storage right are environmental and fish and wildlife purposes for the establishment of the Environmental Account in Pathfinder Reservoir ("Environmental Account"). The new uses for 20,000 acre-feet of the original storage water right are municipal, environmental, and fish and wildlife purposes for the establishment of the Wyoming Account in Pathfinder Reservoir ("Wyoming Account") for which the State has the exclusive right to contract with the United States pursuant to Appendix F to the Final Settlement Stipulation in Nebraska v. Wyoming, 534 U.S. 40 (2001). The original designated uses under Wyoming Permit No. 609R, irrigation and domestic, are maintained for the entire permitted capacity of 1,070,000 acre-feet.

**WHEREAS**, W.S. 41-2-1301(b) states:

"Pursuant to W.S. 41-3-115, and the Wyoming water development office is hereby authorized to transfer a maximum of nine thousand six hundred (9,600) acre feet of storage water per year from the Wyoming account in the Pathfinder Modification Project within Pathfinder reservoir to the Wyoming-Nebraska state line through annual temporary water use agreements with the Platte River Recovery Implementation Program in any year the storage water in the Wyoming account is not needed by the state of Wyoming as a municipal water supply or a replacement water supply to meet the state of Wyoming's obligations in the Nebraska v. Wyoming settlement agreement and the Platte River Recovery Implementation Program."

**WHEREAS**, the United States, acting through the Bureau of Reclamation, will operate the Wyoming Account to insure an annual estimated firm yield of 9,600 acre feet per year.

**NOW THEREFORE**, in consideration of the premises and mutual promises of the Parties, it is agreed as follows:

**I. PURPOSE OF CONTRACT.**

**A.** The Parties wish to enter into this Contract whereby the State will provide water to the PRRIP, through annual temporary water use agreements, from the Wyoming Account to which the State has a right under the Federal Contract, in accordance with the provisions herein.

**B.** This Contract is entered into pursuant to and subject to the court decrees, compacts, laws, permits and Federal Contract hereinabove described which are, by reference, incorporated herein.

C. The water contracted for by the PRRIP under the provisions of this Contract shall be deemed, for the purposes of said Federal Contract, to have been used by the State.

## II. TERM OF CONTRACT.

A. **Effective Date.** This Contract is effective on the date of the signature last affixed to the signature page.

B. **Term.** The term of this Contract shall extend until December 31, 2019 or the date that the State withdraws from the PRRIP, whichever comes first. The Contract may be extended if approved by the Parties.

## III. SERVICES AND PAYMENTS.

### A. **Purchase Price.**

The PRRIP shall purchase thirty-eight thousand four hundred (38,400) acre feet of water ("Purchase Water Amount") from the Wyoming Account. The price of the Purchase Water Amount is based on a unit price of fifty-one dollars (\$51.00) per acre foot and the total purchase price is one million nine hundred fifty-eight thousand four hundred dollars (\$1,958,400.00). Payment of this amount is due on or before July 1, 2012.

1. If more than the Purchase Water Amount is delivered to the PRRIP during the term of this Contract, the price per acre foot of the overrun will be sixty-five dollars (\$65.00) and the PRRIP shall be annually obligated to take delivery of a minimum of four thousand eight hundred (4,800) acre feet or the amount of water available determined in accordance with subsection III.B.1, whichever is less. As an alternative, the Parties may negotiate another prepayment option based on the circumstances at the time the overrun occurs.

2. If less than the Purchase Water Amount is delivered to the PRRIP during the term of this Contract, the State shall reimburse the PRRIP for the underrun at a unit price of fifty-one dollars (\$51.00) per acre foot of underrun on or before November 1, 2019.

The purchase price shall be increased if the Bureau of Reclamation assesses the State for a share of costs related to major repair and construction relating to Pathfinder Dam. In the event of major dam repair and construction, the price will be increased by the 37.4% (20,000/53,493) of the State's actual allocation of major dam repair and construction costs assessed by the Bureau of Reclamation for the Pathfinder Modification Project amortized at a rate of 6% for the remaining term of this Contract and divided by nine thousand six hundred (9,600) acre feet and multiplied by the amount of water yet to be delivered under the Contract. A lump sum payment for the increase will be made by the PRRIP within thirty (30) days after receipt of an invoice from the WWDO. The unit price described in subsection III.A.2 will be increased to compensate for the increase in the purchase price resulting from major dam repair and construction costs.

**B. Terms.**

1. On or before the first of May of each year, the Director of the WWDO ("Director"), in consultation with the Wyoming Area Manager of the Bureau of Reclamation ("Area Manager") and the Wyoming State Engineer, will provide an estimate of the water in the Wyoming Account that may be available to the PRRIP. The deliberations will be based on the amount of water needed by the State to meet its obligations to its municipal customers, the State's obligations under the Nebraska v. Wyoming settlement or the PRRIP, and carryover requirements in the Wyoming Account to ensure a reliable supply for the following year. The estimate ("Available Water Amount") will be provided to the Executive Director of the PRRIP ("Executive Director") and the Environmental Account Manager of U.S. Fish and Wildlife Service ("EA Manager").

2. On or before the first day of June of each year, the Executive Director, in consultation with the EA Manager, will respond to the Director with the quantity of water of the Available Water Amount the PRRIP would like to have released from the Wyoming Account ("Delivery Water Amount"). The Delivery Water Amount shall not be less than four thousand eight hundred (4,800) acre feet or the Available Water Amount, whichever is less. The Delivery Water Amount shall not be more than the Available Water Amount.

3. The Director will ensure the accuracy of the May estimate and advise the Executive Director by the fifteenth of June if there have been changes to the Available Water Amount and if the Delivery Water Amount must be revised.

4. The Director will secure the necessary annual temporary water use agreements from the Wyoming State Engineer.

5. There is a possibility that the demand from the WWDO's municipal customers will be less than anticipated. If this is the case, additional water will be added to the Available Water Amount on or before September 1. If the total is less than or equal to 4,800 acre feet, the Delivery Water Amount will be increased and the temporary use agreement will be revised accordingly. If the total is greater than 4,800 acre feet, the PRRIP has the option to add the additional water to the Delivery Water Amount. If this option is exercised, the Delivery Water Amount will be increased and the temporary use agreement will be revised accordingly.

6. The Delivery Water Amount will be released beginning no earlier than the first of September each year unless the Executive Director and EA Manager request an alternative release schedule. The alternative release schedule must be approved by the Director and Area Manager. No releases will be made that could result in or exacerbate flooding below Pathfinder Dam.

7. The Delivery Water Amount will annually be credited against the Purchase Water Amount. The Delivery Water Amount will be annually tabulated and agreed to by the Director and the Executive Director.

8. Release by the State of the Delivery Water Amount into the North Platte River at the Pathfinder Dam shall constitute delivery of the Delivery Water Amount to the PRRIP. The Delivery Water Amount shall be measured and accounted for at the Pathfinder Dam. The PRRIP shall assume any loss of any nature whatsoever occurring to the Delivery Water Amount between the Pathfinder Dam and the PRRIP's point of use. Conveyance loss from Pathfinder Dam to the Wyoming/Nebraska state line shall be assessed by the Wyoming State Engineer. In accordance with Nebraska law, conveyance losses from the Wyoming/Nebraska state line to the PRRIP point of use will be assessed by the Nebraska Department of Natural Resources.

9. The State makes no warranty with respect to the quality of the Delivery Water Amount released to serve the PRRIP, it being understood that this is raw, untreated water as it naturally occurs in the North Platte River at Pathfinder Dam. In the use of the Delivery Water Amount, the PRRIP agrees to comply with all applicable State and Federal laws. The PRRIP agrees that it will comply fully with all laws, orders, standards, or regulations under federal, State and local jurisdictions now or hereafter in force as may be applicable to the facilities at which the Purchase Water Amount may be used.

#### **IV. SPECIAL PROVISIONS.**

##### **A. Assignability**

1. The PRRIP shall not make any sale, gift, delivery, assignment or other disposition of this Contract or the whole or any part of the Purchase Water Amount except to any entity or entities associated with or retained by the PRRIP for purposes and operations advantageous to the PRRIP as determined by the Governance Committee of the PRRIP.

2. Nothing contained herein relating to the assignability of this Contract shall preclude the PRRIP from entering into arrangements with others for the installation, construction, operation and maintenance of water diversion, carriage and distribution facilities by which the Purchase Water Amount, separately or together with other permitted water appropriations, may be applied for PRRIP purposes.

3. Neither party hereto shall be, or be considered as, the agent, servant, or employee of the other party or be held responsible or liable for damages for the acts or conduct of the other.

4. Wherever in this Contract a time for performance of an obligation is established, then it is agreed that time is of the essence.

##### **B. Delivery.**

1. The State shall exercise all rights under the Federal Contract to arrange for release to the PRRIP of the Purchase Water Amount. In the event that the schedule for release creates operational problems for the State which cannot be overcome by the exercise of reasonable effort and expense and which require a change in the specified schedule (e.g., rate of flow, timing of flow, etc.), then the State shall notify the

PRRIP at the earliest time reasonable under the circumstances. The Parties will use their best efforts to develop a schedule that will accommodate the PRRIP's needs and avoid the operational problems being experienced by the State.

2. The State will comply with all applicable provisions of the Federal Contract and will make all required payments to the United States when they become due. If the United States withholds from the State scheduled deliveries of the Purchase Water Amount to the PRRIP, the PRRIP shall be credited for payments made for water not delivered.

**V. Provisions Required by the Federal Contract.**

A. The provisions of Section V shall apply only to water delivered from the Wyoming Account within the terms of the Federal Contract.

B. The Parties agree that the delivery of water or the use of federal facilities is pursuant to the Federal Contract.

C. The United States, through its Contracting Officer, shall have the right to make determinations necessary to administer the Federal Contract, the laws of the United States and the State of Wyoming and the rules and regulations promulgated by the Secretary of the Interior. Such determinations shall be made in consultation with the State. If such determinations affect this Contract, the State will consult with the PRRIP as soon as practicable.

D. The PRRIP agrees that it will comply fully with air and water pollution control laws, orders, standards, or regulations under federal, state and local jurisdictions now or hereafter in force.

E. During the performance of this Contract, the PRRIP agrees as follows:

1. The PRRIP will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, or disability. The PRRIP will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, national origin, or disability. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The PRRIP agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the United States setting forth the provisions of this Equal Opportunity clause.

2. The PRRIP will, in all solicitations or advertisements for employees placed by or on behalf of the PRRIP, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or disability.

3. The PRRIP will send to each labor union or representative of workers within which it has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the United States, advising the labor union or workers' representative of the PRRIP's commitments under this Equal Opportunity clause, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

4. The PRRIP will comply with all provisions of Executive Order No. 11246 of September 24, 1965 as amended, and of the rules, regulations and relevant orders of the Secretary of Labor.

5. The PRRIP will furnish all information and reports required by said amended Executive Order and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to its books, records and accounts by the contracting officers under the Federal Contract and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations and orders.

6. In the event of PRRIP noncompliance with the Equal Opportunity clause of this Contract or with any of the said rules, regulations or orders, this Contract may be canceled, terminated or suspended, in whole or in part, and the PRRIP may be declared ineligible for further United States Government contracts in accordance with procedures authorized in said amended Executive Order, and such other sanctions may be imposed and remedies invoked as provided in said Executive Order, or by rules, regulations, or order of the Secretary of Labor, or as otherwise provided by law.

7. The PRRIP will include the provisions of paragraphs 1 through 7 in every subcontract or purchase order unless exempted by the rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The PRRIP will take such action with respect to any subcontract or purchase order as may be directed by the Secretary of Labor as a means of enforcing such provisions, including sanctions for noncompliance: provided, however, that in the event the PRRIP becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction, the PRRIP may request the United States to enter into such litigation to protect the interests of the United States.

**F.** The State shall comply with Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d), Section 504 of the Rehabilitation Act of 1973 (P.L. 93-112, as amended), the Age Discrimination Act of 1975 (42 U.S.C. 6101, et seq.), Title II of the Americans with Disabilities Act of 1990, and any other applicable civil rights laws, as well as with their respective implementing regulations and guidelines imposed by the U.S. Department of the Interior and/or the Bureau of Reclamation.

**G.** In its operation of Pathfinder Dam and Reservoir, the United States, through its Contracting Officer, will use all reasonable means to guard against a condition of shortage in the quantity of water to be made available to the State pursuant to the Federal

Contract. In the event the Contracting Officer determines that a condition of shortage appears probable, the Contracting Officer will notify the State of said determination as soon as practicable. In turn, the State will notify the PRRIP of said determination as soon as practicable.

H. If there is a condition of shortage because of errors in physical operations of Pathfinder Dam and Reservoir, drought, other physical causes beyond the control of the United States, through its Contracting Officer, or actions taken by the Contracting Officer to meet current and future legal obligations, then no liability shall accrue against the United States or the State or any of their officers, agents, or employees for any damage, direct or indirect, arising therefrom.

## VI. GENERAL PROVISIONS.

A. **Amendments.** Any changes, modifications, revisions or amendments to this Contract which are mutually agreed upon by the Parties shall be incorporated by written instrument, executed and signed by all Parties.

B. **Default.** No Purchase Water Amount shall be released to the PRRIP under this Contract if the PRRIP is in default in making any payment due the State under this Contract.

C. **Americans with Disabilities Act.** The PRRIP shall not discriminate against a qualified individual with a disability and shall comply with the Americans with Disabilities Act, P.L. 101-336, 42 U.S.C. 12101, *et seq.*, and/or any properly promulgated rules and regulations related thereto.

D. **Applicable Law/Venue.** The construction, interpretation and enforcement of this Contract shall be governed by the laws of the State of Wyoming. The courts of the State of Wyoming shall have jurisdiction over this Contract and the Parties, and the venue shall be the First Judicial District, Laramie County, Wyoming.

E. **Compliance with Laws.** The PRRIP shall keep informed of and comply with all applicable federal, State and local laws and regulations in the performance of this Contract.

F. **Entirety of Contract.** This Contract, consisting of eleven (11) pages, represents the entire and integrated Contract between the Parties and supersedes all prior negotiations, representations, and agreements, whether written or oral.

G. **Force Majeure.** Neither Party shall be liable for failure to perform under this Contract if such failure to perform arises out of causes beyond the control and without the fault or negligence of the nonperforming Party. Such causes may include, but are not limited to, acts of God or the public enemy, fires, floods, epidemics, quarantine restrictions, freight embargoes, and unusually severe weather. This provision shall become effective only if the Party failing to perform immediately notifies the other Party of the extent and



nature of the problem, limits delay in performance to that required by the event, and takes all reasonable steps to minimize delays. This provision shall not be effective unless the failure to perform is beyond the control and without the fault or negligence of the nonperforming Party.

**H. Indemnification.** The PRRIP shall release, indemnify, and hold harmless the State of Wyoming, the WWDO, its officers, agents, employees, successors, and assignees from any cause of action, or claims, charges or costs, including attorney's fees and expert witness fees, or demands of any sort arising out of, directly or indirectly, the PRRIP's performance or failure to perform under this Agreement.

**I. Notices.** Any notice, demand, or request authorized or required by this Contract shall be deemed to have been given, on behalf of the PRRIP, when mailed, postage prepaid, or delivered to the:

Executive Director  
Platte River Recovery Implementation Program  
4111 4<sup>th</sup> Avenue, Suite 6  
Kearney, Nebraska 68845

and on behalf of the State, when mailed, postage prepaid, or delivered to the:

Director  
Wyoming Water Development Office  
6920 Yellowtail Road  
Cheyenne, WY 82002

The designation of the addressee or the address may be changed by notice given in the same manner as provided in this Article for other notices.

**J. Sovereign Immunity.** The State of Wyoming and the Wyoming Water Development Office do not waive sovereign immunity by entering into this Contract, and specifically retain immunity and all defenses available to them as sovereigns pursuant to Wyo. Stat. § 1-39-104(a) and all other state law.

**K. Termination.** Upon failure of the PRRIP to make timely payments in accordance with of this Contract, and upon thirty (30) days written notice to the PRRIP by the State and failure to cure such non-payment by the PRRIP, this Contract may be terminated at the option of the State.

**L. Third Party Beneficiary Rights.** The Parties do not intend to create in any other individual or entity the status of third party beneficiary, and this Contract shall not be construed so as to create such status. The rights, duties and obligations contained in this Contract shall operate only between the Parties, and shall inure solely to the benefit of the Parties. The provisions of this Contract are intended only to assist the Parties in determining and performing their obligations under this Contract.

**M. Titles Not Controlling.** Titles of paragraphs are for reference only, and shall not be used to construe the language in this Contract.

**N. Waiver.** The waiver of any breach of any term or condition in this Contract shall not be deemed a waiver of any prior or subsequent breach.

**O. Officials Not To Benefit.** No Member of or Delegate to the Congress, or state or federal officials shall benefit from this Contract other than as a water user or landowner in the same manner as other water users or landowners.

**THE REMAINDER OF THIS PAGE IS INTENTIONALLY LEFT BLANK**

**VII. SIGNATURES.** In witness thereof, the Parties, either personally or through their duly authorized representatives, have executed this Contract on the days and dates set out below, and certify that they have read, understood, and agreed to the terms and conditions of this Contract.

The effective date of this Contract is the date of the signature last affixed to this page.

**NEBRASKA COMMUNITY FOUNDATION**

*[Signature]*  
Diane M. Wilson  
Chief Financial and Administrative Officer

7/27/2011  
Date

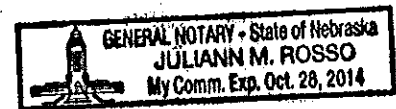
STATE OF NEBRASKA) ss.  
COUNTY OF Lancaster )

The foregoing instrument was acknowledged before me by Diane Wilson,  
CEO & Administrative Officer of Nebraska Community Foundation, this 27 day of July of 2011.

Witness my hand official seal.

*[Signature]*  
Notary Public

My Commission expires: 10/28/14



**STATE OF WYOMING**

*[Signature]*  
Michael K. Purcell  
Director, Wyoming Water Development Office

July 26, 2011  
Date

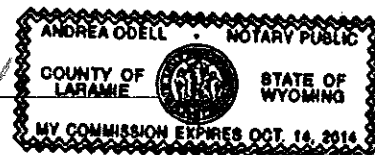
STATE OF WYOMING ) ss.  
COUNTY OF LARAMIE )

The foregoing instrument was acknowledged before me by Michael K. Purcell, Director, Water Development Office of the State of Wyoming, this 26<sup>th</sup> day of July of 2011.

Witness my hand official seal.

*[Signature]*  
Notary Public

My Commission expires: 10-14-14



**WYOMING ATTORNEY GENERAL'S OFFICE APPROVAL AS TO FORM**

*[Signature]* #76112  
S. Jane Caton  
Senior Assistant Attorney General

6-28-11  
Date



## WYOMING WATER DEVELOPMENT COMMISSION

6920 Yellowtail Road, Cheyenne, WY 82002

Phone: (307) 777-7626

Fax: (307) 777-6819

<http://wwdc.state.wy.us>

Matthew H. Mead

Governor

### Commissioners

Nick Bettas	William Resor
Karen Budd-Falen	Margo Sabec
Floyd Canfield	Jeanette Sekan
Mitchel Cottenoir	Rodney Wagner
Sheridan Little	Todd Werbelow

Harry C. LaBonde, Jr., P.E.

Director

August 12, 2013



Mr. Jerry Kenny  
Platte River Recovery Implementation Program  
4114 4<sup>th</sup> Avenue, Suite 6  
Kearney, NE 68845

Mr. Mike George  
U.S. Fish and Wildlife Service  
Federal Building Second Floor  
203 W. 2<sup>nd</sup> Street  
Grand Island, NE 68801

Re: 2013 Water Availability to the PRRIP

Dear Jerry and Mike,

In follow-up to my April 22, 2013 letter, Wyoming has re-evaluated its ability to provide water to the PRRIP in water year 2013. As of this date, Wyoming intends to allocate the full 4,800 AF of leased water to the PRRIP from the Pathfinder Municipal Account. As with last year, the WWDO will provide direction to the Bureau of Reclamation to release the water along with the Environmental Account water at the conclusion of irrigation releases this year.

If you should have any questions please give me a call at 307-777-7626.

Respectfully,

A handwritten signature in blue ink that reads "Harry C. LaBonde".

Harry C. LaBonde, P.E.  
Director

HCL/kt

cc: Brian Pugsley – Wyoming Board of Control  
Lyle Myler – Bureau of Reclamation



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Philip Habeck	Kent Shurtleff
Shawn Hall	James Wilson

Harry C. LaBonde, Jr., P.E.

Director

April 22, 2013



Mr. Jerry Kenny  
Platte River Recovery Implementation Program  
4111 4<sup>th</sup> Avenue, Suite 6  
Kearney, NE 68845

Mr. Mike George  
U.S. Fish and Wildlife Service  
Federal Building Second Floor  
203 W. 2<sup>nd</sup> Street  
Grand Island, NE 68801

Subject: 2013 Water Availability to the PRRIP

Dear Jerry and Mike,

Pursuant to paragraph III. B. 1. of the Platte River Recovery and Implementation Program (PRRIP)-Wyoming Water Development Office (WWDO) water service agreement for Pathfinder Reservoir water, I am required by May 1<sup>st</sup> of each year to provide you with an estimate of water that may be available to the PRRIP from the Wyoming Account. This letter is intended to serve as that notice.

As you are aware the North Platte River system has been experiencing drought conditions for the last two years. This has led to reduced runoff projections into a reservoir system with less than average storage levels. The attached Preliminary Water Release Schedule has been prepared to project releases from the Wyoming Account in 2013. Based upon the latest Bureau of Reclamation April-July inflow estimate to Pathfinder Reservoir of 230,000 AF, the Wyoming Account will not fill. Therefore, the current estimate of water to be made available to PRRIP in 2013 (Most Probable Column) is zero (0) acre-feet.

Recent snow storms in Wyoming have dramatically improved the state's snowpack and reduced municipal demand for Wyoming's Account water. As such, the water supply scenario is improving and will be re-evaluated before June 15<sup>th</sup> at which time a new estimate of Available Water Amount for the program will be made. It is my hope that the improving conditions will allow us to offer 2013 water to the PRRIP.

If you should have any questions, please give me a call.

Respectfully,

A handwritten signature in blue ink that reads "Harry C. LaBonde Jr." The signature is fluid and cursive, with the first name "Harry" and last name "LaBonde" being more prominent than the middle initial "C." and the suffix "Jr.".

Harry C. LaBonde Jr., P.E.

x.c. Pat Tyrrell – State Engineer  
Brian Pugsley – Division I Water Superintendent

**Water Year 2013**  
**Preliminary Water Release Schedule**  
**for the**  
**Wyoming Account – Pathfinder Reservoir**

<b><u>Time Frame</u></b>	<b><u>Most Probable (BOR April Proj.) Water to be Released (AF)</u></b>	<b><u>Improving Water Supply Scenario Water to be Released (AF)</u></b>
<b>February to April</b>		
• Supplemental Municipal – Rawlins	700	700
• Supplemental Municipal – Casper	1,950	1,000
• Supplemental Municipal – CWRWS	150	50
• Supplemental Municipal – Mills	75	50
• Supplemental Municipal – Evansville	40	40
• Supplemental Municipal – Glenrock	<u>25</u>	<u>25</u>
Subtotal	2,950	1,865
<b>July</b>		
• North Platte Decree Replacement Water	3,650	3,650
<b>September</b>		
• Platte River Recovery and Implementation Program	<u>0</u>	<u>4,800</u>
Total	6,590	10,315

**Note: Estimated Available Supplies (AF)**

• April 1 Wyoming Account Balance	12,061	12,061
• 2% of Projected April-Sept Inflow	<u>4,600</u>	<u>7,939</u>
Total	16,661	20,000





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Sheridan Little

William Resor

Margo Sabec

Jeanette Sekan

Rodney Wagner

Todd Werbelow

Harry C. LaBonde, Jr., P.E.

Director

RECEIVED  
08/01/14

July 30, 2014

Mr. Jerry Kenny

Platte River Recovery and Implementation Program (PRRIP)

4114 4<sup>th</sup> Avenue, Suite 6

Kearney, NE 68845

Ms. Eliza Hines

U.S. Fish and Wildlife Service

Federal Building Second Floor

203 W. 2<sup>nd</sup> Street

Grand Island, NE 68801

Subject: 2014 Water Availability to the PRRIP from Pathfinder Reservoir (Wyoming Account)

Dear Jerry and Eliza,

In follow-up to my April 14, 2014 letter to you regarding water availability under PRRIP/ Wyoming Water Development Office (WWDO) water service agreement for Pathfinder Reservoir water, Wyoming has finalized WY2014 water amounts for the PRRIP as follows:

1. 4,800 AF of water to be released from the Wyoming Account when irrigation releases end in September 2014. This water satisfies the annual minimum delivery PRRIP is required to accept in the agreement.
2. An additional 4,800 AF of water to be released from the Wyoming Account when irrigation releases end in September 2014. Pursuant to our recent emails, PRRIP and the Fish & Wildlife Service (FWS) agree to accept this water.

In the PRRIP/WWDO water service agreement, PRRIP has purchased 38,400 AF of water during the term of the contract. The summary of water deliveries completed or planned under the agreement is as follows:

- WY 2012 4,800 AF
- WY 2013 4,800 AF
- WY 2014 9,600 AF (planned for September 2014)



If you should have any questions, please feel free to call me at 307-777-7626.

Respectfully,

A handwritten signature in blue ink that reads "Harry C. LaBonde, Jr." The signature is fluid and cursive, with the first name "Harry" being the most prominent.

Harry C. LaBonde, Jr. P.E.

X.C. Lyle Myler – Bureau of Reclamation  
Pat Tyrrell – Wyoming State Engineer  
Brian Pugsley – Water Division I Superintendent  
Tom Hayden – Nebraska Department of Natural Resources



## WYOMING WATER DEVELOPMENT COMMISSION

6920 Yellowtail Road, Cheyenne, WY 82002

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<http://wwdc.state.wy.us>

**Matthew H. Mead**

Governor

### Commissioners

Nick Bettas

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Karen Budd-Falen

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Margo Sabec

Jeanette Sekan

Rodney Wagner

Todd Werbelow

Harry C. LaBonde, Jr., P.E.

Director

RECEIVED  
4-16-14

April 14, 2014

Mr. Jerry Kenny  
Platte River Recovery Implementation Program  
4111 4<sup>th</sup> Avenue, Suite 6  
Kearney, NE 68845

Ms. Eliza Hines  
U.S. Fish and Wildlife Service  
Federal Building Second Floor  
203 W. 2<sup>nd</sup> Street  
Grand Island, NE 68801

Subject: 2014 Water Availability to the PRRIP

Dear Jerry and Eliza,

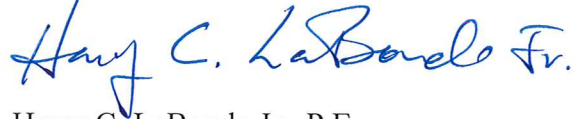
Pursuant to paragraph III. B. 1. of the Platte River Recovery and Implementation Program (PRRIP)-Wyoming Water Development Office (WWDO) water service agreement for Pathfinder Reservoir water, I am required by May 1<sup>st</sup> of each year to provide you with an estimate of water that may be available to the PRRIP from the Wyoming Account. This letter is intended to serve as that notice.

As of April 1, 2014 runoff projections in the North Platte River are expected to be above average and I expect the Pathfinder – Wyoming Account to fill. As such, it is anticipated that Wyoming will be able to offer the full 4,800 AF of water to the PRRIP.

If snowpack conditions continue to improve through the April-June timeframe, there is a chance that Wyoming may be able to provide PRRIP with additional water above and beyond the 4,800 AF. Please advise me if PRRIP would be interested in additional water. Per the agreement, we have until September 1<sup>st</sup> to determine how much additional water may be available to the PRRIP.

If you should have any questions, please give me a call.

Respectfully,

A handwritten signature in blue ink that reads "Harry C. LaBonde Jr." The signature is written in a cursive style with a large, stylized 'H' and 'L'.

Harry C. LaBonde Jr., P.E.

x.c. Pat Tyrrell – State Engineer  
Brian Pugsley – Division I Water Superintendent  
Lyle Mylar – Bureau of Reclamation

## **Jerry Kenny**

---

**From:** Jerry Kenny  
**Sent:** Tuesday, April 29, 2014 12:47 PM  
**To:** harry labonde (harry.labonde@wyo.gov)  
**Cc:** Eliza Hines (eliza\_hines@fws.gov)  
**Subject:** Pathfinder Lease Water

Harry – thank you for the estimate of water availability from the Pathfinder Wyoming Account of 04/14/14. Glad to hear that the full 4,800 AF of water will likely be available. If the determination is made that additional water is available, the Program would be interested in the additional water. - Jerry

Jerry F. Kenny, Ph.D.  
Executive Director PRRIP  
4111 4<sup>th</sup> Avenue, Suite 6  
Kearney, NE 68845  
308.237.5728



## WYOMING WATER DEVELOPMENT COMMISSION

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Matthew H. Mead

Governor

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William Resor

Jeanette Sekan

Rodney Wagner

Todd Werbelow

Harry C. LaBonde, Jr., P.E.

Director

April 16, 2015

RECEIVED  
4-23-15

Mr. Jerry Kenney  
Platte River Recovery Implementation Program  
4111 4<sup>th</sup> Avenue, Suite 6  
Kearney, NE 68845

Mr. Mike Thabault  
U.S. Fish and Wildlife Service  
PO Box 25486, DFC  
Denver, CO 80225-0486

Subject: 2015 Water Availability to the PRRIP

Dear Jerry and Mike,

Pursuant to paragraph III. B. 1. of the Platte River Recovery and Implementation Program (PRRIP) -Wyoming Water Development Office (WWDO) water service agreement for Pathfinder Reservoir water, I am required by May 1<sup>st</sup> of each year to provide you with an estimate of water that may be available to the PRRIP from the Wyoming Account. This letter is intended to serve as that notice.

As you are aware, a low winter snowpack is projected to result in a lower than average runoff in 2015. Based on the latest Bureau of Reclamation April-July runoff forecast for Pathfinder Reservoir (270,000 AF), the reservoir is not expected to fill this year. However, it is expected that there will be adequate stored water in the Wyoming Account to make available to the PRRIP, 4,800 AF. The water supply scenario will be re-evaluated before June 15<sup>th</sup> at which time a new estimate of Available Water Amount for the program will be made.

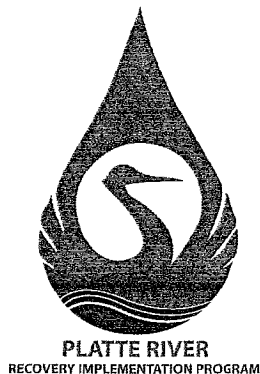
If you should have any questions, please give me a call.

Respectfully,

A handwritten signature in blue ink that reads "Harry C. LaBonde Jr.".

Harry C. LaBonde Jr., P.E.

x.c. Pat Tyrrell State Engineer  
Brian Pugsley-Division I Water Superintendent  
Eliza Hines-USFWS



Office of the Executive Director  
4111 4<sup>th</sup> Avenue, Suite 6  
Kearney, NE 68847  
Phone: (308) 237-5728  
Fax: (308) 237-4651

July 28, 2015

Mr. Harry LaBonde, Jr. P.E.  
Wyoming Water Development Commission  
6920 Yellowtail Road  
Cheyenne, WY 82002

Subject: 2015 Pathfinder Reservoir Wyoming Account Lease Water

Dear Harry,

I am writing in response to your letter of June 15, 2015 regarding availability of an additional 4,800 acre-feet of Wyoming Account Lease Water from Pathfinder Reservoir. I have consulted with Eliza Hines, U.S. Fish and Wildlife Service Environmental Account Manager, and we are in agreement to accept the additional Pathfinder Wyoming Account Lease Water. This letter serves as a formal notification of the exercising of our option to accept the additional water. This additional water, along with the Pathfinder EA water and the initial 4,800 acre-feet of Wyoming Account Lease Water should be released for conveyance to Lake McConaughy when irrigation releases end in September 2015 and be evacuated from Pathfinder Reservoir prior to October 1, 2015.

Thank you for this opportunity for additional water and we will look forward to further coordination as the time for transfer of the water draws closer.

Sincerely,

Jerry F. Kenny, Ph.D., P.E.  
Executive Director  
Platte River Recovery Implementation Program

cc: Eliza Hines, U.S. Fish and Wildlife Service



## WYOMING WATER DEVELOPMENT COMMISSION

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<http://wwdc.state.wy.us>

*file - WY*  
**Matthew H. Mead**  
Governor

### Commissioners

Nick Bettas	Sheridan Little
Travis C. Brockie, I	William Resor
Karen Budd-Falen	Jeanette Sekan
Floyd Canfield	Rodney Wagner
David Evans	Todd Werbelow

Harry C. LaBonde, Jr., P.E.  
Director

RECEIVED  
6-18-15

June 15, 2015

Mr. Jerry Kenny  
Platte River Recovery and Implementation Program (PRRIP)  
4114 4<sup>th</sup> Avenue, Suite 6  
Kearney, NE 68845

Mr. Mike Thabault  
U.S. Fish and Wildlife Service  
P.O. Box 25486, DFC  
Denver, CO 80225-0486

Subject: 2015 Water Availability to the PRRIP from Pathfinder Reservoir (Wyoming Account)

Dear Jerry and Mike,

Increased precipitation in May 2015 has significantly increased the hydrologic outlook for the North Platte River Basin. As such, I have revised my projection of water availability under PRRIP/Wyoming Water Development Office (WWDO) water service agreement for Pathfinder Reservoir water. Wyoming has finalized WY2015 water amounts available for the PRRIP as follows:

1. 4,800 AF of water to be released from the Wyoming Account when irrigation releases end in September 2015. This water satisfies the annual minimum delivery PRRIP is required to accept in the agreement.
2. An additional 4,800 AF of water to be released from the Wyoming Account when irrigation releases end in September 2015. Pursuant to our agreement, PRRIP and the Fish & Wildlife Service (FWS) have the option to accept this water.



In the PRRIP/WWDO water service agreement, PRRIP has purchased 38,400 AF of water during the term of the contract. The summary of water deliveries completed or planned under the agreement is as follows:

- WY 2012 4,800 AF
- WY 2013 4,800 AF
- WY 2014 9,600 AF
- WY 2015 9,600 AF (planned for September 2015)

Please advise me as to whether the PRRIP will exercise the option to acquire the additional 4,800 AF.

If you should have any questions, please feel free to call me at 307-777-7626.

Respectfully,

A handwritten signature in blue ink that reads "Harry C. LaBonde, Jr.".

Harry C. LaBonde, Jr. P.E.  
Director

x.c. Lyle Myler – Bureau of Reclamation  
Pat Tyrrell – Wyoming State Engineer  
Brian Pugsley – Water Division Supervisor  
Tom Hayden – Nebraska Department of Natural Resources  
Eliza Hines – U.S. Fish and Wildlife Service





## WYOMING WATER DEVELOPMENT COMMISSION

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Matthew H. Mead  
Governor

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Karen Budd-Falen	Jeanette Sekan
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David Evans	Todd Werbelow

Harry C. LaBonde, Jr., P.E.  
Director

April 12, 2016

Mr. Jerry Kenney  
Platte River Recovery Implementation Program  
4111 4<sup>th</sup> Avenue, Suite 6  
Kearney, NE 68845

Mr. Mike Thabault  
U.S. Fish and Wildlife Service  
PO Box 25486, DFC  
Denver, CO 80225-0486

Subject: 2016 Water Availability from the Pathfinder WY Account to the PRRIP

Dear Jerry and Mike,

Pursuant to paragraph III. B. 1. of the Platte River Recovery and Implementation Program (PRRIP)-Wyoming Water Development (WWDO) water service agreement for Pathfinder Reservoir water, I am required by May 1<sup>st</sup> of each year to provide you with an estimate of water that may be available to the PRRIP from the Wyoming Account. This letter is intended to serve as that notice.

As of April 4, 2016 the Upper North Platte River snow report shows the basin at 101% of the 30 year median value. Additionally, the April 1, 2016 Bureau of Reclamation forecasted April-July Runoff into the basin above Pathfinder Reservoir is 740,000 acre-feet or 100% of average. With this forecasted inflow, Reclamation is projecting the North Platte Pathfinder Ownership to fill. Based on this information, I am anticipating that the Pathfinder WY Account will fill and Wyoming will be able to make available to PRRIP, the following amounts of water.

1. 4,800 AF of water to be released from the Wyoming Account when irrigation releases end in September 2016. This water satisfies the annual minimum delivery PRRIP is required to accept in the agreement.
2. An additional 4,800 AF of water to be released from the Wyoming Account when irrigation releases end in September 2016. Pursuant to our agreement, PRRIP and the Fish & Wildlife Service (FWS) have the option on whether or not to accept this water.

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04/23/16  
16

If the PRRIP and FWS decide to accept the additional 4,800 AF of water, the water delivery accounting from the Wyoming Account will be as follows:

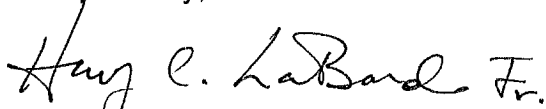
	<u>Delivery Amount</u>
• 2012	4,800 AF
• 2013	4,800 AF
• 2014	9,600 AF
• 2015	9,600 AF
• 2016	<u>9,600 AF</u> (planned)
Total	38,400 AF

Upon Delivery of 38,400 AF, Wyoming will have satisfied the contractual Purchase Water Amount (38,400 AF) in our agreement. As such, any additional water supplied in 2017-2019 time frame will be available upon an additional payment of \$65.00/AF or a negotiated prepayment option (reference contract paragraph III. A. 1).

I will keep you advised if there is a significant change in the water supply forecast that might modify Wyoming's ability to provide the full 9,600 AF of water this year. Please respond prior to June 1, 2016 if the PRRIP wishes to accept the second 4800 AF of water.

If you should have any questions, please give me a call.

Respectfully,



Harry C. LaBonde Jr., P.E.  
Director

x.c. Pat Tyrrell, Wyoming State Engineer  
Brian Pugsley-Division I Water Superintendent  
Eliza Hines-USFWS  
Jeff Fassett, Nebraska DNR  
Tom Hayden, Nebraska DNR

**From:** [Jerry Kenny](#)  
**To:** [Sira Sartori](#); [Seth Turner](#)  
**Subject:** FW: Pathfinder Water Availability 2016  
**Date:** Wednesday, June 22, 2016 4:35:41 PM

---

fyi

---

**From:** Jerry Kenny  
**Sent:** Wednesday, June 22, 2016 5:32 PM  
**To:** harry labonde (harry.labonde@wyo.gov)  
**Cc:** Eliza Hines (eliza\_hines@fws.gov); Jerry Kenny  
**Subject:** Pathfinder Water Availability 2016

Harry – In your letter of April 12, 2016 you indicated that an additional 4,800 acre-feet of water from the Wyoming Account in Pathfinder Reservoir would be available to PRRIP in accordance with the terms of our water service agreement. After consultation with Eliza Hines, EA Manager, with the USFWS; the PRRIP and the USFWS agree to decline the option for the additional 4,800 acre-feet of 2016 water. We understand that the annual minimum delivery amount will be released from the Wyoming Account in September when irrigation releases end. Thank you for your cooperation in this matter. - Jerry

Jerry F. Kenny, Ph.D.  
Executive Director PRRIP  
4111 4<sup>th</sup> Avenue, Suite 6  
Kearney, NE 68845  
308.237.5728



Office of the Executive Director  
4111 4th Avenue, Suite 6  
Kearney, NE 68847  
Phone: (308) 237-5728  
Fax: (308) 237-4651

Mr. Harry LaBonde, P.E., Director  
Wyoming Water Development Office  
6920 Yellowtail Rd, Cheyenne, WY 82009

June 26, 2017

RE: Pathfinder Municipal Account Lease 2017 Available Water Amount

This letter is the formal response confirming the verbal communication amongst the Wyoming Water Development Commission (WWDC), The United States Fish and Wildlife Service (USFWS), and the Executive Director's Office of the Platte River Recovery Implementation Program (Program) regarding the 2017 Available Water Amount from the Pathfinder Municipal Water Account. As you have communicated previously, a total of 9,600 acre-feet of water is available. After consultation between the Environmental Account Manager of the USFWS (Eliza Hines) and myself as Executive Director representing the Program, we are requesting the total available 9,600 acre-feet amount for delivery in 2017.

Under the terms of the Pathfinder Lease Agreement of 2011, the upfront payment covered a total of 38,400 acre-feet. Of the 2017 total available water, 4,800 acre-feet are covered by the upfront payment. The second 4,800 acre-feet allocation for 2017 falls under the terms defined in Section III.A.1, which allows available water in excess of the 38,400 acre-feet prepaid amount to be acquired at \$65.00 per acre-foot. Unless directed otherwise by the Governance Committee or upon a prepayment request of the WWDC, the additional 4,800 acre-feet 2017 delivery and all future Pathfinder Municipal Lease water delivered through the 2019 term of the agreement will be invoiced by the WWDC and paid by the Program on an annual basis.

The Pathfinder Municipal Lease water along with the Pathfinder EA water should be released for conveyance to Lake McConaughy when irrigation releases end in September 2017 and be evacuated from Pathfinder Reservoir prior to October 1, 2017. Thank you for this opportunity for additional water and we will look forward to further coordination as the time for transfer of the water draws closer.

Sincerely,

Jerry F. Kenny, Ph.D., P.E.  
Executive Director

Electronic CC: Eliza Hines, USFWS





## WYOMING WATER DEVELOPMENT OFFICE

6920 Yellowtail Road  
Cheyenne, WY 82002

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Matthew H. Mead  
Governor

### Commissioners

Nick Bettas	Kellen K. Lancaster
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Gerald E. Geis	Larry Suchor
Clinton W. Glick	Rodney Wagner

Harry C. LaBonde, Jr., P.E.  
Director

April 9, 2018

Mr. Jason Farnsworth  
Platte River Recovery Implementation Program  
4111 4<sup>th</sup> Avenue, Suite 6  
Kearney, NE 68845

Mr. Mike Thabault  
U.S. Fish and Wildlife Service  
PO Box 25486, DFC  
Denver, CO 80225-0486

Subject: 2018 Water Availability from the Pathfinder Reservoir - WY Account for the PRRIP

Dear Jason and Mike,

Pursuant to paragraph III. B. 1. of the Platte River Recovery and Implementation Program (PRRIP)-Wyoming Water Development Office (WWDO) water service agreement for Pathfinder Reservoir water, I am required by May 1<sup>st</sup> of each year to provide you with an estimate of water that may be available to the PRRIP from the Wyoming Account. This letter is intended to serve as that notice.

As you may recall, last year Wyoming delivered 9,600 AF to the PRRIP. The first 4,800 AF delivery completed the base contract obligation of providing 38,400 AF of water in the 2012 to 2019 time frame. Per the contract, additional deliveries of water beyond the 38,400 AF is optional subject to the additional payment of \$65.00/AF or a new negotiated prepayment rate. Last year Jerry Kenny and I decided to use the \$65.00/AF rate because the term of the agreement (2019) was fast approaching.

As of April 2, 2018 the Upper North Platte River snow report shows the basin at 90% of the 30 year median value. While the snowpack appears to be below average, federal reservoir contents on the North Platte River are above average and I expect the Wyoming Municipal Account to fill. Based on this information, I am anticipating that in 2018, Wyoming will be able to make available to PRRIP, up to 9,600 AF of water. The water delivery accounting from the Wyoming Account is as follows:

	<u>Delivery Amount</u>
• 2012	4,800 AF
• 2013	4,800 AF
• 2014	9,600 AF
• 2015	9,600 AF
• 2016	4,800 AF
• 2017	<u>9,600 AF</u>
Total	43,200 AF

I will keep you advised if there is a significant change in the water supply forecast that might modify Wyoming's ability to provide the full 9,600 AF of water this year. Per the contract, PRRIP needs to confirm the amount of water you desire to take by June 1, 2018.

If you should have any questions, please give me a call.

Respectfully,

A handwritten signature in blue ink that reads "Harry C. LaBonde Jr." in a cursive style.

Harry C. LaBonde Jr., P.E.  
Director

x.c. Pat Tyrrell, Wyoming State Engineer  
Brian Pugsley-Division I Water Superintendent  
Eliza Hines-USFWS  
Jeff Fassett, Nebraska DNR  
Tom Hayden, Nebraska DNR



## WYOMING WATER DEVELOPMENT OFFICE

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7/5/18

Matthew H. Mead  
Governor

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Nick Bettas	Kellen K. Lancaster
Karen Budd-Falen	Sheridan Little
David Evans	Jeanette Sekan
Gerald E. Geis	Larry Suchor
Clinton W. Glick	Rodney Wagner

Harry C. LaBonde, Jr., P.E.  
Director

July 2, 2018

Mr. Jason Farnsworth  
Platte River Recovery Implementation Program  
4111 4<sup>th</sup> Avenue, Suite 6  
Kearney, NE 68845

Mr. Mike Thabault  
U.S. Fish and Wildlife Service  
PO Box 25486, DFC  
Denver, CO 80225-0486

Subject: 2018 Water Availability from the Pathfinder Reservoir - WY Account for the PRRIP

Dear Jason and Mike,

On April 9, 2018 I wrote to you anticipating the State of Wyoming would be able to provide 9,600 AF of water to the PRRIP from the WY account in Pathfinder Reservoir. Due to drier than normal conditions and below average runoff, the WY account did not fill this year. As such, WY will not be able to provide the full 9,600 AF of water as projected in April. Wyoming is able to offer in 2018, the base contract amount of 4,800 AF plus an additional 3,300 AF for a total amount of 8,100 AF. The billing rate is \$65.00 per AF. An invoice is attached reflecting the new amount of water being sold to the PRRIP in 2018.

As an aside, the Environmental Account in Pathfinder Reservoir did not fill this year and reached a peak of approximately 20,000 AF. If you should have any questions, please call.

Respectfully,

A handwritten signature in blue ink that reads "Harry C. LaBonde Jr.".

Harry C. LaBonde Jr., P.E.  
Director

x.c. Eliza Hines - USFWS  
Andrea Odell - WWDO

**Table C-1. Key scoring assumptions.**

Component	Data
Hydrology	OpStudy Adjusted Present Condition with Three State Projects (without pulse flows)
Analysis Period	1947-1994
Analysis Time Step	Monthly
Excesses/Shortages Calculation	@ Grand Island
Target Flows	Appendix A-5, Column 8
Routing	WMC Loss Model

**Table C-2. Average September routing losses from Pathfinder Reservoir to Lake McConaughy, based on the WMC Loss Model by year type.**

Month	Normal	Wet	Dry
September	6%	6%	8%

\*Based on releases from Pathfinder Reservoir to Lake McConaughy.

**Table C-3. Average losses from Lake McConaughy to Grand Island, based on WMC Loss Model data by year type.**

Month	Normal	Wet	Dry
Jan	14%	13%	16%
Feb	9%	10%	11%
Mar	5%	5%	7%
Apr	7%	9%	10%
May	10%	9%	11%
Jun	14%	13%	37%
Jul	26%	11%	62%
Aug	28%	16%	74%
Sep	30%	21%	66%
Oct	19%	12%	48%
Nov	14%	10%	27%
Dec	14%	11%	16%

**Table C-4. Average monthly percentage of evaporation from the EA based on OpStudy data.**

Month	Average percent of evaporation
Jan	0.06%
Feb	0.21%
Mar	0.23%
Apr	0.36%
May	0.40%
Jun	0.44%
Jul	0.78%
Aug	0.72%
Sep	0.38%
Oct	0.22%
Nov	0.10%
Dec	0.03%



Appendix D  
Score Analysis - Scenario 1

**Table D-1: Releases from Lake McConaughy Environmental Account (AF).**

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1947	0	0	4,466	0	0	0	0	0	0	0	0	0	4,466
1948	0	0	0	4,454	0	0	0	0	0	0	0	0	4,454
1949	0	0	0	0	4,438	0	0	0	0	0	0	0	4,438
1950	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1951	0	0	4,464	0	0	0	0	0	0	0	0	0	4,464
1952	0	0	0	0	8,916	0	0	0	0	0	0	0	8,916
1953	0	0	0	0	0	0	8,841	0	0	0	0	0	8,841
1954	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1955	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1956	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1957	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1958	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1959	0	0	0	0	0	0	4,401	0	0	0	0	0	4,401
1960	0	0	0	2,300	2,059	0	0	0	0	0	0	0	4,359
1961	0	0	4,464	0	0	0	0	0	0	0	0	0	4,464
1962	0	0	0	4,366	0	0	0	0	0	0	0	0	4,366
1963	0	0	0	0	0	0	4,401	0	0	0	0	0	4,401
1964	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1965	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1966	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1967	0	0	4,464	0	0	0	0	0	0	0	0	0	4,464
1968	0	0	4,464	0	0	0	0	0	0	0	0	0	4,464
1969	0	0	0	4,454	0	0	0	0	0	0	0	0	4,454
1970	0	0	4,464	0	0	0	0	0	0	0	0	0	4,464
1971	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1972	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1973	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1974	0	0	0	0	8,916	0	0	0	0	0	0	0	8,916
1975	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1976	0	0	0	0	0	0	4,401	0	0	0	0	0	4,401
1977	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1978	0	0	0	4,454	0	0	0	0	0	0	0	0	4,454
1979	0	0	4,464	0	0	0	0	0	0	0	0	0	4,464
1980	0	0	0	4,454	0	0	0	0	0	0	0	0	4,454
1981	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1982	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1983	0	0	4,464	0	0	0	0	0	0	0	0	0	4,464
1984	0	0	0	0	0	0	0	8,772	0	0	0	0	8,772
1985	0	0	0	0	8,916	0	0	0	0	0	0	0	8,916
1986	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1987	0	0	0	0	0	0	0	8,772	0	0	0	0	8,772
1988	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1989	0	0	4,464	0	0	0	0	0	0	0	0	0	4,464
1990	0	0	4,464	0	0	0	0	0	0	0	0	0	4,464
1991	0	0	4,464	0	0	0	0	0	0	0	0	0	4,464
1992	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1993	0	0	0	4,454	0	0	0	0	0	0	0	0	4,454
1994	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
Avg	0	0	3,803	603	693	0	459	365	0	0	0	0	5,923

Appendix D  
Score Analysis - Scenario 2

Table D-2: Releases from Lake McConaughy Environmental Account (AF).

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1947	0	0	4,466	0	0	0	0	0	0	0	0	0	4,466
1948	0	0	0	4,454	0	0	0	0	0	0	0	0	4,454
1949	0	0	0	0	8,876	0	0	0	0	0	0	0	8,876
1950	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1951	0	0	4,464	0	0	0	0	0	0	0	0	0	4,464
1952	0	0	0	0	8,916	0	0	0	0	0	0	0	8,916
1953	0	0	0	0	0	0	8,841	0	0	0	0	0	8,841
1954	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1955	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1956	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1957	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1958	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1959	0	0	0	0	0	0	5,500	3,276	0	0	0	0	8,776
1960	0	0	0	2,300	2,059	0	0	0	0	0	0	0	4,359
1961	0	0	4,464	0	0	0	0	0	0	0	0	0	4,464
1962	0	0	0	4,366	0	0	0	0	0	0	0	0	4,366
1963	0	0	0	0	0	0	8,802	0	0	0	0	0	8,802
1964	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1965	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1966	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1967	0	0	4,464	0	0	0	0	0	0	0	0	0	4,464
1968	0	0	8,929	0	0	0	0	0	0	0	0	0	8,929
1969	0	0	0	4,454	0	0	0	0	0	0	0	0	4,454
1970	0	0	8,929	0	0	0	0	0	0	0	0	0	8,929
1971	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1972	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1973	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1974	0	0	0	0	8,916	0	0	0	0	0	0	0	8,916
1975	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1976	0	0	0	0	0	0	4,401	0	0	0	0	0	4,401
1977	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1978	0	0	0	8,908	0	0	0	0	0	0	0	0	8,908
1979	0	0	4,464	0	0	0	0	0	0	0	0	0	4,464
1980	0	0	0	4,700	0	0	4,158	0	0	0	0	0	8,858
1981	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1982	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1983	0	0	4,464	0	0	0	0	0	0	0	0	0	4,464
1984	0	0	0	0	0	0	0	8,772	0	0	0	0	8,772
1985	0	0	0	0	8,916	0	0	0	0	0	0	0	8,916
1986	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1987	0	0	0	0	0	0	0	8,772	0	0	0	0	8,772
1988	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1989	0	0	8,929	0	0	0	0	0	0	0	0	0	8,929
1990	0	0	4,464	0	0	0	0	0	0	0	0	0	4,464
1991	0	0	8,929	0	0	0	0	0	0	0	0	0	8,929
1992	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1993	0	0	0	4,454	0	0	0	0	0	0	0	0	4,454
1994	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
Avg	0	0	4,175	701	785	0	660	434	0	0	0	0	6,755

**Table D-3: Releases from Lake McConaughy Environmental Account (AF).**

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1947	0	0	4,466	0	0	0	0	0	0	0	0	0	4,466
1948	0	0	0	8,908	0	0	0	0	0	0	0	0	8,908
1949	0	0	0	0	8,876	0	0	0	0	0	0	0	8,876
1950	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1951	0	0	8,929	0	0	0	0	0	0	0	0	0	8,929
1952	0	0	0	0	8,916	0	0	0	0	0	0	0	8,916
1953	0	0	0	0	0	0	8,841	0	0	0	0	0	8,841
1954	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1955	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1956	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1957	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1958	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1959	0	0	0	0	0	0	5,500	3,276	0	0	0	0	8,776
1960	0	0	0	2,300	2,059	0	0	0	0	0	0	0	4,359
1961	0	0	8,929	0	0	0	0	0	0	0	0	0	8,929
1962	0	0	0	4,366	0	0	0	0	0	0	0	0	4,366
1963	0	0	0	0	0	0	8,802	0	0	0	0	0	8,802
1964	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1965	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1966	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1967	0	0	8,929	0	0	0	0	0	0	0	0	0	8,929
1968	0	0	8,929	0	0	0	0	0	0	0	0	0	8,929
1969	0	0	0	8,908	0	0	0	0	0	0	0	0	8,908
1970	0	0	8,929	0	0	0	0	0	0	0	0	0	8,929
1971	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1972	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1973	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1974	0	0	0	0	8,916	0	0	0	0	0	0	0	8,916
1975	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1976	0	0	0	0	0	0	8,802	0	0	0	0	0	8,802
1977	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1978	0	0	0	8,908	0	0	0	0	0	0	0	0	8,908
1979	0	0	8,800	128	0	0	0	0	0	0	0	0	8,928
1980	0	0	0	4,700	0	0	4,158	0	0	0	0	0	8,858
1981	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1982	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1983	0	0	8,929	0	0	0	0	0	0	0	0	0	8,929
1984	0	0	0	0	0	0	0	8,772	0	0	0	0	8,772
1985	0	0	0	0	8,916	0	0	0	0	0	0	0	8,916
1986	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1987	0	0	0	0	0	0	0	8,772	0	0	0	0	8,772
1988	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
1989	0	0	8,929	0	0	0	0	0	0	0	0	0	8,929
1990	0	0	8,929	0	0	0	0	0	0	0	0	0	8,929
1991	0	0	8,929	0	0	0	0	0	0	0	0	0	8,929
1992	0	0	4,376	0	0	0	0	0	0	0	0	0	4,376
1993	0	0	0	8,908	0	0	0	0	0	0	0	0	8,908
1994	0	0	8,968	0	0	0	0	0	0	0	0	0	8,968
Avg	0	0	4,730	982	785	0	752	434	0	0	0	0	7,683

## Appendix E

### Score Analysis - Scenario 1

**Table E-1: Score at Grand Island (AF).**

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1947	0	0	4,264	0	0	0	0	0	0	0	0	0	4,264
1948	0	0	0	4,125	0	0	0	0	0	0	0	0	4,125
1949	0	0	0	0	4,044	0	0	0	0	0	0	0	4,044
1950	0	0	8,563	0	0	0	0	0	0	0	0	0	8,563
1951	0	0	4,239	0	0	0	0	0	0	0	0	0	4,239
1952	0	0	0	0	8,123	0	0	0	0	0	0	0	8,123
1953	0	0	0	0	0	0	3,371	0	0	0	0	0	3,371
1954	0	0	4,060	0	0	0	0	0	0	0	0	0	4,060
1955	0	0	4,060	0	0	0	0	0	0	0	0	0	4,060
1956	0	0	4,060	0	0	0	0	0	0	0	0	0	4,060
1957	0	0	4,060	0	0	0	0	0	0	0	0	0	4,060
1958	0	0	4,178	0	0	0	0	0	0	0	0	0	4,178
1959	0	0	0	0	0	0	1,678	0	0	0	0	0	1,678
1960	0	0	0	2,130	1,849	0	0	0	0	0	0	0	3,979
1961	0	0	4,142	0	0	0	0	0	0	0	0	0	4,142
1962	0	0	0	4,043	0	0	0	0	0	0	0	0	4,043
1963	0	0	0	0	0	0	1,678	0	0	0	0	0	1,678
1964	0	0	4,060	0	0	0	0	0	0	0	0	0	4,060
1965	0	0	4,156	0	0	0	0	0	0	0	0	0	4,156
1966	0	0	8,563	0	0	0	0	0	0	0	0	0	8,563
1967	0	0	4,263	0	0	0	0	0	0	0	0	0	4,263
1968	0	0	4,263	0	0	0	0	0	0	0	0	0	4,263
1969	0	0	0	4,125	0	0	0	0	0	0	0	0	4,125
1970	0	0	4,239	0	0	0	0	0	0	0	0	0	4,239
1971	0	0	8,516	0	0	0	0	0	0	0	0	0	8,516
1972	0	0	8,516	0	0	0	0	0	0	0	0	0	8,516
1973	0	0	8,516	0	0	0	0	0	0	0	0	0	8,516
1974	0	0	0	0	8,123	0	0	0	0	0	0	0	8,123
1975	0	0	8,563	0	0	0	0	0	0	0	0	0	8,563
1976	0	0	0	0	0	0	1,678	0	0	0	0	0	1,678
1977	0	0	4,178	0	0	0	0	0	0	0	0	0	4,178
1978	0	0	0	4,125	0	0	0	0	0	0	0	0	4,125
1979	0	0	4,263	0	0	0	0	0	0	0	0	0	4,263
1980	0	0	0	4,074	0	0	0	0	0	0	0	0	4,074
1981	0	0	8,321	0	0	0	0	0	0	0	0	0	8,321
1982	0	0	4,178	0	0	0	0	0	0	0	0	0	4,178
1983	0	0	4,239	0	0	0	0	0	0	0	0	0	4,239
1984	0	0	0	0	0	0	0	7,386	0	0	0	0	7,386
1985	0	0	0	0	8,123	0	0	0	0	0	0	0	8,123
1986	0	0	8,516	0	0	0	0	0	0	0	0	0	8,516
1987	0	0	0	0	0	0	0	7,386	0	0	0	0	7,386
1988	0	0	8,563	0	0	0	0	0	0	0	0	0	8,563
1989	0	0	4,263	0	0	0	0	0	0	0	0	0	4,263
1990	0	0	4,263	0	0	0	0	0	0	0	0	0	4,263
1991	0	0	4,142	0	0	0	0	0	0	0	0	0	4,142
1992	0	0	4,178	0	0	0	0	0	0	0	0	0	4,178
1993	0	0	0	4,074	0	0	0	0	0	0	0	0	4,074
1994	0	0	8,563	0	0	0	0	0	0	0	0	0	8,563
Avg	0	0	3,603	556	630	0	175	308	0	0	0	0	5,273

Table E-2: Score at Grand Island (AF).

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1947	0	0	4,264	0	0	0	0	0	0	0	0	0	4,264
1948	0	0	0	4,125	0	0	0	0	0	0	0	0	4,125
1949	0	0	0	0	8,088	0	0	0	0	0	0	0	8,088
1950	0	0	8,563	0	0	0	0	0	0	0	0	0	8,563
1951	0	0	4,239	0	0	0	0	0	0	0	0	0	4,239
1952	0	0	0	0	8,123	0	0	0	0	0	0	0	8,123
1953	0	0	0	0	0	0	3,371	0	0	0	0	0	3,371
1954	0	0	4,060	0	0	0	0	0	0	0	0	0	4,060
1955	0	0	4,060	0	0	0	0	0	0	0	0	0	4,060
1956	0	0	4,060	0	0	0	0	0	0	0	0	0	4,060
1957	0	0	4,060	0	0	0	0	0	0	0	0	0	4,060
1958	0	0	4,178	0	0	0	0	0	0	0	0	0	4,178
1959	0	0	0	0	0	0	2,097	865	0	0	0	0	2,962
1960	0	0	0	2,130	1,849	0	0	0	0	0	0	0	3,979
1961	0	0	4,142	0	0	0	0	0	0	0	0	0	4,142
1962	0	0	0	4,043	0	0	0	0	0	0	0	0	4,043
1963	0	0	0	0	0	0	3,356	0	0	0	0	0	3,356
1964	0	0	4,060	0	0	0	0	0	0	0	0	0	4,060
1965	0	0	4,156	0	0	0	0	0	0	0	0	0	4,156
1966	0	0	8,563	0	0	0	0	0	0	0	0	0	8,563
1967	0	0	4,263	0	0	0	0	0	0	0	0	0	4,263
1968	0	0	8,526	0	0	0	0	0	0	0	0	0	8,526
1969	0	0	0	4,125	0	0	0	0	0	0	0	0	4,125
1970	0	0	8,479	0	0	0	0	0	0	0	0	0	8,479
1971	0	0	8,516	0	0	0	0	0	0	0	0	0	8,516
1972	0	0	8,516	0	0	0	0	0	0	0	0	0	8,516
1973	0	0	8,516	0	0	0	0	0	0	0	0	0	8,516
1974	0	0	0	0	8,123	0	0	0	0	0	0	0	8,123
1975	0	0	8,563	0	0	0	0	0	0	0	0	0	8,563
1976	0	0	0	0	0	0	1,678	0	0	0	0	0	1,678
1977	0	0	4,178	0	0	0	0	0	0	0	0	0	4,178
1978	0	0	0	8,250	0	0	0	0	0	0	0	0	8,250
1979	0	0	4,263	0	0	0	0	0	0	0	0	0	4,263
1980	0	0	0	4,299	0	0	3,720	0	0	0	0	0	8,019
1981	0	0	8,321	0	0	0	0	0	0	0	0	0	8,321
1982	0	0	4,178	0	0	0	0	0	0	0	0	0	4,178
1983	0	0	4,239	0	0	0	0	0	0	0	0	0	4,239
1984	0	0	0	0	0	0	0	7,386	0	0	0	0	7,386
1985	0	0	0	0	8,123	0	0	0	0	0	0	0	8,123
1986	0	0	8,516	0	0	0	0	0	0	0	0	0	8,516
1987	0	0	0	0	0	0	0	7,386	0	0	0	0	7,386
1988	0	0	8,563	0	0	0	0	0	0	0	0	0	8,563
1989	0	0	8,526	0	0	0	0	0	0	0	0	0	8,526
1990	0	0	4,263	0	0	0	0	0	0	0	0	0	4,263
1991	0	0	8,285	0	0	0	0	0	0	0	0	0	8,285
1992	0	0	4,178	0	0	0	0	0	0	0	0	0	4,178
1993	0	0	0	4,074	0	0	0	0	0	0	0	0	4,074
1994	0	0	8,563	0	0	0	0	0	0	0	0	0	8,563
Avg	0	0	3,955	647	715	0	296	326	0	0	0	0	5,939

Appendix E  
Score Analysis - Scenario 3

Table E-3: Score at Grand Island (AF).

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1947	0	0	4,264	0	0	0	0	0	0	0	0	0	4,264
1948	0	0	0	8,250	0	0	0	0	0	0	0	0	8,250
1949	0	0	0	0	8,088	0	0	0	0	0	0	0	8,088
1950	0	0	8,563	0	0	0	0	0	0	0	0	0	8,563
1951	0	0	8,479	0	0	0	0	0	0	0	0	0	8,479
1952	0	0	0	0	8,123	0	0	0	0	0	0	0	8,123
1953	0	0	0	0	0	0	3,371	0	0	0	0	0	3,371
1954	0	0	4,060	0	0	0	0	0	0	0	0	0	4,060
1955	0	0	4,060	0	0	0	0	0	0	0	0	0	4,060
1956	0	0	4,060	0	0	0	0	0	0	0	0	0	4,060
1957	0	0	4,060	0	0	0	0	0	0	0	0	0	4,060
1958	0	0	4,178	0	0	0	0	0	0	0	0	0	4,178
1959	0	0	0	0	0	0	2,097	865	0	0	0	0	2,962
1960	0	0	0	2,130	1,849	0	0	0	0	0	0	0	3,979
1961	0	0	8,285	0	0	0	0	0	0	0	0	0	8,285
1962	0	0	0	4,043	0	0	0	0	0	0	0	0	4,043
1963	0	0	0	0	0	0	3,356	0	0	0	0	0	3,356
1964	0	0	4,060	0	0	0	0	0	0	0	0	0	4,060
1965	0	0	4,156	0	0	0	0	0	0	0	0	0	4,156
1966	0	0	8,563	0	0	0	0	0	0	0	0	0	8,563
1967	0	0	8,526	0	0	0	0	0	0	0	0	0	8,526
1968	0	0	8,526	0	0	0	0	0	0	0	0	0	8,526
1969	0	0	0	8,250	0	0	0	0	0	0	0	0	8,250
1970	0	0	8,479	0	0	0	0	0	0	0	0	0	8,479
1971	0	0	8,516	0	0	0	0	0	0	0	0	0	8,516
1972	0	0	8,516	0	0	0	0	0	0	0	0	0	8,516
1973	0	0	8,516	0	0	0	0	0	0	0	0	0	8,516
1974	0	0	0	0	8,123	0	0	0	0	0	0	0	8,123
1975	0	0	8,563	0	0	0	0	0	0	0	0	0	8,563
1976	0	0	0	0	0	0	3,356	0	0	0	0	0	3,356
1977	0	0	4,178	0	0	0	0	0	0	0	0	0	4,178
1978	0	0	0	8,250	0	0	0	0	0	0	0	0	8,250
1979	0	0	8,403	119	0	0	0	0	0	0	0	0	8,522
1980	0	0	0	4,299	0	0	3,720	0	0	0	0	0	8,019
1981	0	0	8,321	0	0	0	0	0	0	0	0	0	8,321
1982	0	0	4,178	0	0	0	0	0	0	0	0	0	4,178
1983	0	0	8,479	0	0	0	0	0	0	0	0	0	8,479
1984	0	0	0	0	0	0	0	7,386	0	0	0	0	7,386
1985	0	0	0	0	8,123	0	0	0	0	0	0	0	8,123
1986	0	0	8,516	0	0	0	0	0	0	0	0	0	8,516
1987	0	0	0	0	0	0	0	7,386	0	0	0	0	7,386
1988	0	0	8,563	0	0	0	0	0	0	0	0	0	8,563
1989	0	0	8,526	0	0	0	0	0	0	0	0	0	8,526
1990	0	0	8,526	0	0	0	0	0	0	0	0	0	8,526
1991	0	0	8,285	0	0	0	0	0	0	0	0	0	8,285
1992	0	0	4,178	0	0	0	0	0	0	0	0	0	4,178
1993	0	0	0	8,148	0	0	0	0	0	0	0	0	8,148
1994	0	0	8,563	0	0	0	0	0	0	0	0	0	8,563
Avg	0	0	4,482	906	715	0	331	326	0	0	0	0	6,760